SECTION 601 PORTLAND CEMENT CONCRETE PAVEMENT

	MATERIAL	PURP.	SAMPLED BY	BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	REMARKS
	MATERIAL		METHOD			CONTAINER	DISTR.		TIME	
			FOR DETA	ILS ON CONC	RETE MIX DES	IGNS, TESTS A	AND MATE	ERIALS, SEE SE	CTION 901 O	F THIS MANUAL.
ADHESIVE- LUBRICANT	For Preformed Elastomeric- Compression- Joint Seal	Accept.	Proj. Engr. S 601	Mat. Lab	1/lot or shipment	1 qt friction top can		2,000 yd ² PCCP	10 days	For Preformed Elastomeric Compression Joint Seal (AML) Mix well before sampling. Seal can tightly. For Preformed Polyurethane Foam Joint Seal - as recommended by manufacturer.
BOLSTER BLOCKS	Concrete				SEE SECTIO	N 901 OF THIS	MANUAL.	(CLASS A STR	UCTURAL OR	R PAVEMENT TYPE)
CURED Thicky Comp Streng	Cores - Thickness & Compressive Strength	Accept.	Contractor/ Dist. Lab. TR 225	Mat. Lab/ Dist. Lab.	5/lot	5 cores*		less than 2,000yd ² make cylinders an record depth measurements	dependent upon completion of lot & curing min. 3 days	*Contractor shall notify the Dist. Lab Engr. at least five (5) days prior to the start of coring operations. See "Application of Quality Assurance Specifications for Portland Cement Concrete Pavement and Structures" for details. For pavement plan thickness 10.0 inches (250 mm) or less, 4" diameter (nominal) cores may be used.
	Surface Tolerance	Quality Control	Contractor TR 644	Contractor	Each wheel path, each lane, for length of project					Contractor must furnish an approved inertial profiler and approved 10 ft metal static straightedge. To be tested as soon as concrete has hardened.
		Accept.	Contractor/ Project Engr. TR 644	Dist. Lab	Each wheel path, each lane, for length of project				2 days	Travel lane and associated pavement will be tested after quality control testing and corrective work completed by contractor.
	Tine Texturing	Accept.	Proj. Engr. TR 229	Proj. Engr.	2/lot*				1 day	*See DOTD TR 229.
CONCRETE- PLASTIC	Compressive Strength	Accept.*	Proj. Engr. S 301 TR 226	Dist. Lab	3 cyl/pour/ 100yd ³ max.**	6 in. x 12 in. or 4 in. x 8 in. cylinder mold			30 days	*For small quantity pavements and projects with less than 2000 yd². ** If used for curbs only, frequency is 3 cyl / 50 yd3.
	Early Strength Test	Info	Proj. Engr. S 301 TR 226	Dist. Lab	1 set of 3 cyl/location/	6 in. x 12 in. or 4 in. x 8 in. cylinder mold			1 day	*Used to determine early opening date for traffic or construction equipment.
	Thickness	Quality Control	Contractor	Contractor	*					*For small quantity pavements and projects with less than 2000 yd ² .
		Accept.	Proj. Engr.	Proj. Engr.	*				1 day	*For small quantity pavements and projects with less than 2000 yd ² .
CURING MATERIALS	Moist Cure Materials	Accept.	Proj. Engr. S 601	Mat. Lab	1/shipment*	36 in. x 36 in.			10 days	*Visual inspection by Proj. Engr. Sample only if questionable
CURING MATERIALS (Cond't)	Liquid Membrane Forming	Prelim. Source Approval	Mfr. S 601	Mat. Lab	1/6 months	1 qt friction top can			21 days	(AML)
· 4	Compound	Accept.	Proj. Engr. S 601	Mat. Lab	1/shipment*	1 qt friction top can	CC 1		10 days	(AML) *Visual inspection by Project Engr. Sample only if guestionable.

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SECTION 601 PORTLAND CEMENT CONCRETE PAVEMENT (Cont'd)

	MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	REMARKS
	WATERIAL		METHOD			CONTAINER	DISTR.		TIME	
EPOXY RESIN SYSTEMS	Type I, Grade- GSpecified Type & Grade	Accept.	Proj. Engr. S 601	Mat. Lab	1/lot -or- shipment	1 qt each component friction top can or cartridge / tube system	CC 1	50 lin ft of joint	11 days	(AML) Visual inspection by Proj. Engr. Sample only if questionable.
		Verif.	Proj. Engr. S 601	Mat. Lab	1/lot or shipment	1 qt each component friction top can or cartridge / tube system		1 gallon	11 days	(AML)
GEOTEXTILE FABRIC		Accept.	Proj. Engr. S 601	Mat. Lab	1/type/ source/ shipment	3 lin ft/roll width of fabric*	CC 1	150 yd ² of fabric	10 days	(AML) *Sample a minimum of 18 ft2.
JOINT FILLERS (Cond't)	Preformed Polyurethane Foam	Accept.	Proj. Engr. S 601	Mat. Lab	1/5000 lin ft/ type	36 in. length		2,000 yd ² PCCP	10 days	
,	Wood	Accept.	Proj. Engr. S 601	Mat. Lab	1/5000 lin ft	36 in. length		2,000 yd ² PCCP	10 days	
JOINT FORMER/ SEALER	Preformed Joint Former/ Sealer	Accept.	Proj. Engr. S 601	Mat. Lab	1/5000 lin ft	6 ft length		2,000 yd ² PCCP	11 days	
JOINT SEALANT (Extruded)	Silicone Polymer (single or two-	Prelim. Source Approval	Dist. Lab S 611	Mat. Lab	1/batch or shipment	1 gal friction top can	CA 7		30 days	(AML)
,	component rapid cure)	Accept.	Proj. Engr. S 611	Mat. Lab	1/shipment*	1 gal friction top can	CD 1 -& 7	2,000 yd ² PCCP	30 days	(AML) *Sample only if questionable.
		Accept.*	Proj. Engr. S 611	Mat. Lab	1/batch or shipment	1 gal friction top can	CA 7	2,000 yd ² PCCP	30 days	(AML) *When material is not accompanied by a CD.
JOINT SEALANT (Hot Poured)	Rubberized Asphaltic Type	Prelim. Source Approval	Dist. Lab S 611	Mat. Lab	1/batch or shipment	one container	CA 7		11 days	(AML)
		Accept.	Proj. Engr. S 611	Mat. Lab	1/shipment*	one container	CD 1 -& 7	2,000 yd ² PCCP	11 days	
		Accept.*	Proj. Engr. S 611	Mat. Lab	1/batch or shipment	one container	CA 7	2,000 yd ² PCCP	11 days	(AML) *When material is not accompanied by a CD.
OINT SEALANT Backing	Rods	Accept.		Mat. Lab						(AML) For use with polyurethane silicone polymer joint seals. Visual inspection by Proj. Engr.
Material)	Rods (Heat Resistant)	Accept.		Mat. Lab						(AML) For use with Hot poured joint sealants. Visual inspection by Proj. Engr.
JOINT SEALANTS Primer)		Accept.		Proj. Engr.						(AML) For use with polyurethane and silicone polymers joint sealants. Visual inspection by Proj. Engr.

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JOINT SEAL (Preformed)	Elastomeric Compression	Accept.	Proj. Engr. S 601	Mat. Lab	1/lot or shipment	8 ft length	CA 7	2,000 yd ² PCCP	 (AML) Proj. Engr. forwards CA with sample to Mat. Lab.
LIME	Hydrated	Accept.		Mat. Lab	1/shipment		CD 1		 (AML) Visual inspection by Proj. Engr.

SECTION 601 PORTLAND CEMENT CONCRETE PAVEMENT (Cont'd)

		MATERIAL	PURP.	SAMPLED BY METHOD	TESTED BY	MIN. FREQ.	MIN. QUANT. CONTAINER	CERT. DISTR.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
	LUBRICANT- ADHESIVE (added to previous entry)		Accept.		Proj. Engr.						(AML.) For use with preformed polyurethane foam joint seal. Visual-inspection by Proj. Engr.
	NON-SHRINK PATCHING SYSTEM	Non-Shrink Grout	Accept.	Proj. Engr. S 601	Mat. Lab	1/source	1 sack		20 sacks	16 days	(AML) Sample shall be submitted in an unbroken moisture proof sack.
10	REINFORCE MENT	Adhesive Anchor System	Accept.	Proj. Engr. S 501	Mat. Lab	1/type			2,000 yd ² PCCP	12 days	(AML)
7		Dowel Bars	Accept.	Proj. Engr. S 501	Mat. Lab	1/shipment	2 bars *		2,000 yd ² PCCP	9 days	*For mechanical placement, only one dowel bar required. Basket assemblies checked for dimensional conformance by Proj. Engr.
		Mechanical Butt Splicing Devices	Accept.	Proj. Engr. S 501	Mat. Lab	1/size/ shipment 25 splices *			2,000 yd ² PCCP	9 days	(AML) * sampling may be reduced to 1 / size / 100 splices after the first 100 splices with acceptable results
		Tie Bars	Accept.	Proj. Engr. S 501	Mat. Lab	1/size/grade/ 150,000lb/ source*	2 bars	CA 1	2,000 yd ² PCCP	9 days	*If listed on AML, material with a CA (Distr. 1) need not be sampled. Sample if questionable.
	TAR PAPER		Accept.	Proj. Engr. S 601	Mat. Lab	1/source*	2 ft x 2 ft			9 days	For Bolster Blocks. *Visual inspection by Proj. Engr. Sample only if questionable.

SECTION 602 PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION

	MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	REMARKS			
	MATERIAL		METHOD			CONTAINER	DISTR.		TIME	REWARKS			
FOR DETAIL	FOR DETAILS ON CONCRETE MIX DESIGNS, TESTS AND MATERIALS, FLY ASH. SEE SECTION 901 OF THIS MANUAL. EACH REHABILITATION ITEM WILL SPECIFY THE SPECIFIC TYPE OF MATERIALS TO BE USED.												
CONCRETE- CURED	Surface Tolerance (Grinding)	Quality Control	Contractor TR 644	Contractor	Each wheel path, each lane, for length of project					Contractor must furnish an approved 25 ft profilograph or approved alternate. Tested prior to as well as after grinding.			
		Accept.	Contractor/ Dist. Lab TR 641	Dist. Lab	Each wheel path, each lane, for length of project				2 days	Travel lane will be evaluated after corrective work completed by contractor.			
		Accept.	Proj. Engr.	Proj. Engr.	*				1 day	*For Cross Slope & Trans. Joints, PE shall test as needed. Contractor must furnish approved metal static straightedges.			
	Surface Finish (Patching)	Quality Control	Contractor	Contractor	each patched area					Contractor must furnish an approved 10 ft metal static straightedge. To be tested as soon as concrete has hardened.			

Accept.	Proj. Engr.	Proj. Engr.	each patched	 	 1day	Tested with approved 10 ft metal static straightedge.
			area			

SECTION 602 PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION (Cont.'d)

		PURP.	SAMPLED	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL	
	MATERIAL		BY METHOD	ВҮ	FREQ.	CONTAINER	DISTR.	QUANTITY	HANDLING TIME	REMARKS
	Tine Texturing (Patching)	Accept.	Proj. Engr. TR 229	Proj. Engr.	each patched area*				1 day	*Match texture of adjoining pavement.
		Quality Control	Contractor TR 229	Contractor	*					*Sufficient number of random checks to ensure the required texture depth is achieved.
CONCRETE- PLASTIC	Compressive Strength	Accept.	Proj.Engr. S 301/ TR226	Dist. Lab	6 cyl/lot *	6 in. x 12 in. or 4 in. x 8 in. cylinder mold			30 days	* If used for curbs only, frequency is 3 cyl / 50 yd3.
	Early Strength Test	Info	Proj. Engr. S 301 TR 226	Dist. Lab	3 cyl / lot	6 in. x 12 in. or 4 in. x 8 in. cylinder mold			1 day	*Used to determine early opening date for traffic or construction equipment.
CURING MATERIALS	Moist Cure Materials	Accept.	Proj. Engr. S 601	Mat. Lab	1/shipment*	36 in. x 36 in.			10 days	*Visual inspection by Proj. Engr. Sample only if questionable. For cold weather protection.
CURING MATERIALS (Cont.'d)	Liquid Membrane Forming	Prelim. Source Approval	Mfr. S 601	Mat. Lab	1/6 months	1 qt friction top can			21 days	(AML)
	Compound	Accept.	Proj. Engr. S 601	Mat. Lab	1/shipment*	1 qt friction top can	CC 1		10 days	(AML) *Visual inspection by Proj. Engr. Sample only if questionable.
EPOXY RESIN SYSTEMS	Type Grade- as specified Specified Type & Grade	Accept.	Proj. Engr. S 601	Mat. Lab	1/lot or shipment	1 qt each component friction top can or cartridge / tube system	CC 1		11 days	(AML) Visual Inspection by Proj. Engr. Sample only if questionable.
		Verif.	Proj. Engr. S 601		1/lot or shipment	1 qt each component friction top can or cartridge / tube system		1 gallon	11 days	(AML)
JOINT SEALANT (Extruded)	Silicone Sealant (Single	Prelim Source Approval	Dist. Lab S 611	Mat. Lab	1/batch or shipment	1 gal friction top can	CA 7		30 days	(AML)
,	Component)	Accept.	Proj. Engr. S 611	Mat. Lab	1/shipment*	1 gal friction top can	CD 1 &7	2000 yd ² PCCP	30 days	(AML) *Sample only if questionable.
		Accept.*	Proj. Engr. S 611	Mat. Lab	1/batch or shipment	1 gal friction top can	CA 7	2000 yd ² PCCP	30 days	(AML) *When material is not accompanied by a CD.

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SECTION 602 PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION (Cont.'d)

	MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	DEMARKS
	MATERIAL		METHOD			CONTAINER	DISTR.		TIME	REMARKS
JOINT SEALANT (Hot Poured)	Rubberized Asphaltic Type	Prelim. Source Approval	Dist. Lab S 611	Mat. Lab	1/batch or shipment	one container	CA 7		11 days	(AML)
(11011 00100)		Accept.	Proj. Engr. S 611	Mat. Lab	1/shipment*	one container	CD 1 -& 7	2000 yd ² PCCP	11 days	(AML) *Sample only if questionable.
		Accept.*	Proj. Engr. S 611	Mat. Lab	1/batch or shipment	one container	CA 7	2000 yd ² PCCP	11 days	(AML) *When material is not accompanied by a CD.
JOINT SEALANT (Backing	Rods	Accept.		Mat. Lab						For use with polyurethane polymer (AML) and silicone polymer (AML) joint seals. Visual inspection by Proj. Engr.
Material)	Rods (Heat Resistant)	Accept.		Proj. Engr.						(AML) For use with hot poured joint sealants. Visual inspection by Proj. Engr.
JOINT SEALANTS (Primer)		Accept.		Proj. Engr.						(AML) For use with silicone polymers joint sealants. Visual inspection by Proj. Engr.
LOW- SHRINK PATCHING	Rapid Set	Accept.	Proj. Engr. S 601	Mat. Lab	1/source	1 bag	CC 1			(AML) For Dowel Bar retrofit 602.15(b).
MATERIAL	Compressive Strength	Accept.	Proj. Engr.	Dist. Lab	1 per 1st day production	6 cubes				Tested at 3 and 25 hours. 1st set must be taken during 1st day production
	Compressive Strength	Design	Proj Engr.	Dist. Lab Mat. Lab	1/source	6 cubes				For preapproval of design. Tested at 3 and 24 hours.
	Compressive Strength	Verif.	Proj Engr.	Dist. Lab	1 /4 hours of production	6 cubes				Tested at 3 and 24 hours.
POWDERED AMMONIUM LIGNIN SULPHONAT		Accept.	Proj. Engr.	Proj. Engr.	1/lot or batch		CC 1			For undersealing and slabjacking.
REINFORCE MENT	Adhesive Anchor Systems	Accept.	Proj. Engr. S 501	Mat. Lab	1/type				12 days	(AML)
	Dowel Bars	Accept.	Proj. Engr. S 501	Mat. Lab	1/shipment	2 bars*			9 days	*For mechanical placement, only one dowel bar required. Basket assemblies checked for dimensional conformance by Proi. Engr.
	Tie Bars	Accept.	Proj. Engr. S 501	Mat. Lab	1/size/grade/ 150,000 lb/ source*	2 bars	CA 1		9 days	*If listed on AML, material with a CA (Distr. 1) need not be sampled. Sample if questionable.
	Steel Fibers	Accept.		Mat. Lab*	1/shipment	1 qt can	CC* 1		10 days	*Visual inspected by Proj. Engr. Sample if questionable.
SLURRY	Time of Efflux	Accept.	Proj. Engr. TR 633	Proj. Engr.	1/half day	3 gal suitable container				For undersealing and slabjacking.

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